

VI. MONITORING AND RESEARCH CONTRACTS

The Department supported a number of monitoring and research-related contracts in 2001/2002 to attain monitoring goals in the SCR. Table 13 lists completed or on-going contracts. Funding for these studies comes through NCCP Local Assistance Grants, federal Section 6 funds, or partnerships with other agencies or organizations. More specific information on contracts is found under earlier discussions on monitored species, research on Department lands, or the NCCP program.

Table 13. SCR Monitoring and Research Contracts: Payables & Receivables

| Contract Title | Species | Contractee | Status | Amount | Type | Manager |
|--|--------------------------------------|--|------------------------|---------------|---|----------------|
| Island Fox Candidate Conservation Agreement-Santa Cruz Island | Island Fox | TBA -The Nature Conservancy | Begin contract in 2003 | \$504,000 | Receivable - Section 6 (special) | Comrack |
| Island Fox, Island Loggerhead Shrike Candidate Conservation Agreement -Santa Catalina Island | Island Fox, Island Loggerhead Shrike | TBA - Catalina Island Conservancy | Begin contract in 2003 | \$10,800 | Receivable - Section 6 (special) | Comrack |
| Light-footed Clapper rail monitoring & protection | Light-footed Clapper Rail | TBA - Zembal, Konecny, Hoffmann, Wildlife Services | Begin contract in 2003 | \$31,800 | Receivable - Section 6 (traditional) | Comrack |
| California Least Tern monitoring & protection A2530 | Least Tern | See "Type-payables" | | \$50,000 | Receivable - Section 6 (traditional) | Comrack |
| California Least Tern monitoring & protection A2552 | Least Tern | See "Type-payables" | | \$54,945 | Receivable - Section 6 (traditional) | Comrack |
| California Least Tern monitoring & protection PCA TBA | Least Tern | TBA | | \$25,000 | Receivable - Section 6 (traditional) | Comrack |
| Gull-billed Tern food habits | Gull-billed Tern | See "Type-payables" | | \$3,865 | Receivable - Partnerships for Wildlife (PFWA) | Comrack |
| Bird Species of Special Concern - Phase I | Birds | See "Type-payables" | | \$9,000 | Receivable - PFWA | Comrack |
| Bird Species of Special Concern - Phase II | Birds | See "Type-payables" | | \$6,000 | Receivable - PFWA | Comrack |
| Least Tern Coordination, 2001 | Least Tern | Robert Patton | Draft | \$4,999 | Payable - Section 6 | Comrack |
| Least Tern Coordination 2002 | Least Tern | Robert Patton | Draft | \$4,999 | Payable - Section 6 | Comrack |
| Least Tern Monitoring - Ormond Beach | Least Tern | Walter Wehtje | Final | \$4,999 | Payable - Section 6 | Comrack |
| Least Tern Monitoring - Venice Beach | Least Tern | Kathy Keane | Final | \$4,999 | Payable - Section 6 | Comrack |

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| Gull-billed Tern food habits | Gull-billed Tern | Kathy Molina | Final | \$4,993 | Payable – PFWA/Tax Check-off | Comrack |
| Belding's Savannah Sparrow Survey 2001 | Belding's Savannah Sparrow | Richard Zembal | Final | \$3,000 | Payable - Tax Check-off/O & E | Comrack |
| San Diego Natural History Museum Bird Atlas | Birds | SDNHM | Final | \$50,000 | Payable - Local Assistance | Comrack |
| California Bird Species of Special Concern | Birds | Point Reyes Bird Observatory | Final | \$21,693 | Payable - PFWA/Tax Check-off | Comrack |
| Bird Species of Special Concern-range map editing & species accounts | Birds | John Sterling | Final | \$2,000 | Payable – O & E | Comrack |
| Species Accounts – BSSC | Birds | 20 contracts | Final | \$9,000 | Payable – PFWA/O& E | Comrack |
| Habitat Surveys and population monitoring of Arroyo toad and Pacific pond turtles | Arroyo toads and Pacific pond turtles | USGS | | \$183,264 | Payable- Local Assistance | Hovey |
| Demographics and skeletal chronology of the arroyo toad | Arroyo toad | USGS | | \$45,000 | Section 6 | Hovey |
| Amphibian and Ant monitoring in the Nature Reserve of Orange County | Amphibians, Reptiles and Ants | USGS | | | Payable – Local Assistance | Hovey |
| Monitoring Herpetofauna and ant diversity of the MSCP – Carmel Mt. & Del Mar Mesa | Herpetofauna and Ants | USGS | | \$28,880 | Payable – Local Assistance | Hovey |
| Ecology and Management of Otay Tarplant | Otay Tarplant | San Diego State Univ. | Final | \$41,621 | Section 6 | Lawhead |
| CSS Bird Monitoring at Lakeside Linkage | CSS birds | San Diego Co. Parks | Final | \$25,537 | Payable - Local Assistance | Lawhead |
| Calif. Gnatcatcher Dispersal in the Lakeside Linkage | California Gnatcatcher | San Diego Co. Parks | Final in 2003 | \$69,431 | Payable- Local Assistance | Lawhead |
| MSCP Wildlife Corridor Monitoring | Carnivores | Conservation Biology Inst. | Final | \$75,000 | Payable – Local Assistance- | Lawhead |
| MSCP Corridor Monitoring and Assessment | Carnivores | Conservation Biology Inst. | Final in 2003 | \$87,595 | Payable – Local Assistance | Lawhead |
| Rancho Jamul ER Biological Inventory | Wildlife and plant species | USGS | Final | \$59,991 | Section 6 | Lawhead |
| CSS Index of Biological Integrity | CSS species | San Diego State Univ. | Final in 2004 | \$290,118 | Payable – Local Assistance | Lawhead |
| MSCP Raptor Monitoring | Raptors | Wildlife Research Institute | Final in 2004 | \$203,455 | Payable – Local Assistance | Mayer |

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|--|------------------------------------|-------------------------------------|---------------|-----------|----------------------------|--------------------|
| MSCP Bat Surveys | All Bat Species | San Diego Co./USGS | Final in 2004 | \$103,480 | Payable – Local Assistance | Fisher |
| Pacific Pocket Mouse Habitat Soils Analysis | Pacific Pocket Mouse | San Diego State Univ. | Final in 2003 | \$91,140 | Section 6 | Lawhead |
| Orange Co. CA Gnatcatcher & Cactus Wren Monitoring | Calif. Gnatcatcher and Cactus Wren | Nature Reserve of Orange Co. (NROC) | Final | \$42,360 | Payable – Local Assistance | Lawhead |
| NROC Vegetation Monitoring | All Vegetation Types | NROC | In progress | \$45,200 | Payable – Local Assistance | Osborne |
| Orange Co. Carnivore Monitoring | Carnivores | NROC | In progress | \$32,760 | Payable – Local Assistance | Tippets |
| Orange Co. Avian Productivity and Survival | Birds | NROC | Final | \$31,856 | Payable – Local Assistance | Fritz |
| Orange Co. Ant Monitoring | Ants | NROC | Final in 2003 | \$23,000 | Payable – Local Assistance | Tippets |
| Sensitive Plant Inventory – MSCP | Sensitive Plant Species | Co. of San Diego | Final | \$110,000 | Payable Local Assistance | Osborne |
| MHCP Biological Monitoring Plan | MHCP Covered Species | Conservation Biology Inst. | Final | \$23,232 | Payable – Local Assistance | Lawhead |
| MSCP Monitoring & Management Protocol Herpetofauna/Monitoring Database Development | MSCP Herpetofauna | San Diego State Univ./USGS | In progress | \$288,659 | Payable – Local Assistance | Tippets and Miller |

VII. DEPARTMENT RESEARCH AND SPECIAL PROJECTS

Current Monitoring Research Projects

The following section presents current research being conducted by the Monitoring Team and Department biologists, either solely or in conjunction with other agency and/or non-agency personnel. Where applicable, these projects are completed, described in manuscript form and submitted to various peer-review journals for publication.

RESEARCH: Southern Steelhead Trout Research (submitted for review to California Fish and Game Journal in August of 2002) Biologist: Tim E. Hovey (Department)

During the spring of 1999 a small population of southern steelhead trout was discovered in San Mateo Creek in northern San Diego County. Immediately after the discovery, the California Department of Fish and Game (Department) initiated a program to monitor the status of the southern steelhead trout population of San Mateo Creek. Since that time a total of 40 Department-lead surveys have been conducted on the drainage.